

Bus

FD 240

A Toyota Group Company



ADR 80/03 Model 4 x 2 Bus Chassis

KEY FEATURES

Cruise Control
ABS Brakes
Easy Start – Take-off Assist
Optional Spring Air Suspension on Rear Axle
Seating 35-43

KEY SPECIFICATIONS

Power 176kW at 2400rpm
Torque 716Nm at 1500rpm
GVM 10,300kg
Transmissions Six-speed synchromesh
Wheelbase 5500mm





FD 240

Engine & Driveline specifications

ENGINE

Model	HINO J07E-TP
Max output (ISO Net)	176kW (240 PS) at 2400rpm
Max output (JIS Gross)	180kW (245 PS) at 2400rpm
Max torque (ISO Net)	716Nm (73kgf/m) at 1500rpm
Max torque (JIS Gross)	725Nm (74kgf/m) at 1500 rpm
Max engine speed	2400rpm
Engine compliance	ADR 80/03
Type	Diesel, turbocharged & intercooled, five-cylinder in-line, overhead camshaft & water-cooled
Combustion system	Direct injection with EGR
Bore & stroke	112 x 130mm
Piston displacement	6.403L
Compression ratio	17.0:1
Engine oil capacity	11.7L
Coolant capacity	23.5L
Fuel injection pump	Electronic control common-rail type
Air cleaner	Dual paper elements
Air compressor	Single cylinder, water-cooled
Bore & stroke	70 x 40mm
Fan clutch	Equipped
Exhaust	Horizontal outlet with DPR
Emission Control System	EGR & DPR meeting ADR 80/03 using EURO 5 Std

CLUTCH

Model	CS-350 series
Type	Dry single plate with damper springs
Facing material	Molded (non asbestos)
Facing outside diameter	350mm
Control	Hydraulic with air booster

PERFORMANCE

Calculations based on 10.3 ton GVM, 9.5R17.5 tyre	
Maximum theoretical speed (km/h)	. . 112
Speed limited to (kmh) 100
Gradeability tan θ (%) 45.1

TRANSMISSIONS & GEAR RATIOS

Model	LX06S Overdrive
Type	Six forward and one reverse speeds, overdrive, synchromesh on 2nd to 6th

1st	6.098	5th	1.000
2nd	3.858	6th	0.761
3rd	2.340	Rev.	5.672
4th	1.422		

Control	Cable with power assist shift
Rear axle gear ratio	4.3:1

AXLE LOAD & TYPE

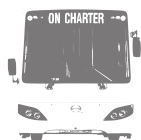
Front axle	3600kg
Rear axle	7000kg
Front axle type	LF366 series Reversed Elliot, I-Beam
Rear axle type	SH13 full-floating, single reduction, single-speed hypoid

BRAKES

Type	Hydraulic system with two leading shoes for front and rear acting on all wheels
Control	Air over hydraulic, dual circuit
Drum diameter x lining	
Width	Front: 320 x 110mm Rear: 320 x 145mm
Air drier	Equipped
ABS	Equipped
ASR (Anti Slip Regulator)	Equipped
Brake auto-shoe adjuster	Equipped
Parking brake	Spring brake, acting on rear wheels
Exhaust	Electric-pneumatic control with valve in exhaust pipe
Easy Start	Equipped

STEERING

Type	Telescopic and tilt column with locking device, Recirculating ball with Integral Power Steering
Gearbox ratio	18.6:1



FD 240

Suspension, Chassis, Tyres & Instrumentation

SUSPENSION

Front suspension Type	Semi-elliptic tapered leaf springs with shock absorbers
Size	1300 span x 70mm width
Rear suspension Type	
Air.	Hendrickson HAS air bag suspension with shock absorbers
Spring	Semi-elliptic main auxiliary leaf
Main springs	Main: 1300 span x 70mm width Auxiliary: 900 span x 70mm width

WHEELS & TYRES

Wheel type	Six-stud disc wheel (JIS type) PCD 222.25
Rim size	6.75 x 17.5 – offset 135mm
Tyre size	9.5R17.5-16PR
Number of tyres	Seven (including one spare)
Spare tyre carrier	Equipped

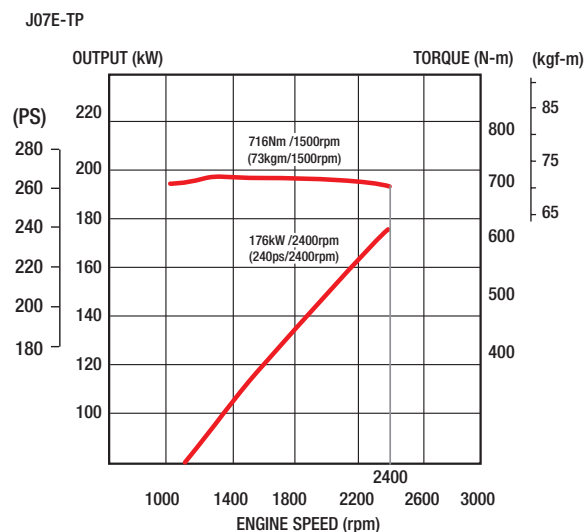
FUEL TANK

Capacity	200L
Fuel pre-filter and sedimentor	Equipped
Fuel tank cap key	Equipped

CHASSIS FRAME

Type	Ladder-shaped, channel section side rails
Rear chassis width	820mm
Max. section (depth x flange x thickness)	Main: 231.6 x 73 x 6.8mm Inner: 218 x 60 x 3.2mm
Tensile strength	Main: 540Nm (55kgf/mm ²) Inner: 440Nm (45kgf/mm ²)
Hooks	Equipped for front and rear

POWER & TORQUE CHART (ISO Net) J07E TP

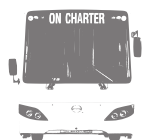


ELECTRICAL

Type	24V, negative earth
Batteries	2 x 12V, series connection Capacity 65 Ah at 20-hour rate
Alternator type	Brushless with built-in rectifier & voltage regulator
Capacity	24V, 90A
Starter type	24V, 4.5kW
Headlamps	Semi-sealed beam, halogen type 2-head lamps
High/low beam	Equipped
Electric horn	Equipped

INSTRUMENTS

- Meters & gauges**
 - Speedometer with trip meter
 - Odometer
 - Tachometer
 - Fuel gauge
 - Coolant temperature gauge
 - Air pressure gauge
 - Tachograph 7 day cycle
- Switches**
 - One-key starting-stopping
 - Lighting
 - Directional indicator, dimmer & passing
 - Wiper & washer
 - Hazard lamp
 - Exhaust brake
 - Map lamp
 - Fog lamp
 - Easy Start
 - Cruise Control
 - ASR off
 - DPR regeneration
- Warning, pilot lamps & buzzers**
 - Oil pressure warning lamp & buzzer
 - Air pressure warning lamp & buzzer
 - Engine over-run warning buzzer
 - Coolant level warning lamp & buzzer
 - Brake fluid level warning lamp & buzzer
 - Brake adjustment warning lamp & buzzer
 - High beam indicator lamp
 - Turn signal indicator lamp
 - Parking brake indicator lamp
 - Seat belt warning lamp & buzzer
 - Exhaust brake indicator lamp
 - Engine control system warning lamp
 - Hazard indicator lamp
 - Back-up warning buzzer
- Others**
 - Idle up control knob
 - Horn button



Bus

FD 240 Dimensions



DIMENSIONS - mm / Capacities

Model	FD 230
Product code	FD8JPKG-B
Wheelbase (WB)	5500
Overall length (OL)	9145
Overall width (OW)	2175
Overall height (OH)	2465
Rear overhang (at frame end) (ROHF)	2450
Front chassis height (HF)	775
Rear chassis height (HR)	875
Road clearance (at front axle) (RC)	220
Front tread (FT)	1770
Rear tread (RT)	1660
Turning circle kerb to kerb	17,000
Turning circle wall to wall	18,400
Approx Chassis mass – kg (Standard tools, 10 litres of fuel, without spare tyres)	
Total	2390
Front	1220
Rear	1170
GVM	10,300
GCM	16,000

DEALERSHIP

WARRANTY

New vehicle warranty period

Bus	Axle configuration	Standard warranty (whichever comes first)	Drivetrain
FD 240 Bus Chassis	4x2	12 months/unlimited km	24 months/unlimited km

Battery warranty – 12 months from date of delivery

Genuine parts or accessories warranty – 3 years unlimited kilometres when fitted by an authorised Hino dealer *

* For conditions, refer to the Hino Parts & Service warranty brochure

DISCLAIMER

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